



GOSHEN FIRE COMPANY

1320 Park Avenue • West Chester, Pennsylvania 19380

February 22, 2021

Maggie Dobbs, AICP
Director of Planning & Zoning / Assistant Township Manager
Westtown Township
1039 Wilmington Pike
West Chester PA 19382

Dear Ms. Dobbs,

This letter memorializes an email communication I had with Mila Robinson, Assistant Planner and Interim Zoning Officer, on January 20, 2021 regarding the proposed Sawmill Court land development application.

Fire Hydrant Location - I have reviewed the plans and the fire hydrant location looks to be appropriate at the corner of South Concord Rd and the southernmost entrance to Sawmill Court.

Access for emergency vehicles – Due to the width of the paved roadway (24'), it is recommended that on-street parking be permitted on one side of the roadway only.

In addition, I have included a Turning Performance Analysis document for our largest fire apparatus – please have the applicant confirm that this vehicle will be able to maneuver easily and navigate all curves without stopping and backing. The “wall-to-wall” turning radius is important as it includes clearance for the overhanging platform at the front of the vehicle (which must clear stationary roadside objects such as light poles and mature trees).

Finally, I have reviewed the section of the **Response to Albert Federico Consulting, LLC Review letter** that pertains to the horizontal radius and vertical curve. I was not able to find a similar condition in adjacent developments, but the proposed design will require emergency vehicle operators to use caution while driving on Sawmill Court due to the sag curve, sight lines and headlight sight distance.

Please do not hesitate to contact me should you have any questions or require additional information.

Best regards,



M. Grant Everhart
Executive Director



Turning Performance Analysis

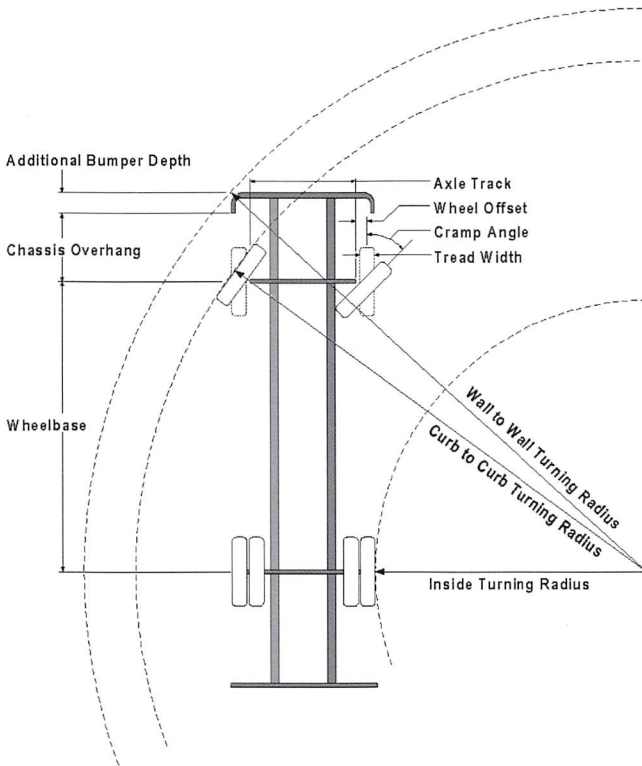
07/10/2020

Bid Number: 312

Chassis: Arrow-XT Chassis, PAP/Midmount MUX, 2010, NOT FOR FUTURE USE

Department: Goshen Fire Company

Body: Aerial, Platform 100', Alum Body



Parameters:

| | |
|--------------------------|-----------|
| Inside Cramp Angle: | 40° |
| Axle Track: | 82.92 in. |
| Wheel Offset: | 5.30 in. |
| Tread Width: | 16.6 in. |
| Chassis Overhang: | 68.99 in. |
| Additional Bumper Depth: | 26 in. |
| Front Overhang: | 94.99 in. |
| Wheelbase: | 247 in. |

Calculated Turning Radii:

| | |
|---------------|---------------|
| Inside Turn: | 23 ft. 5 in. |
| Curb to curb: | 38 ft. 9 in. |
| Wall to wall: | 46 ft. 10 in. |

Comments:

| Category | Option | Description |
|---------------------|---------|---|
| Axle, Front, Custom | 0090913 | Axle, Front, Oshkosh TAK-4, Non Drive, 24,000 lb, Qtm/AXT/DCF |
| Wheels, Front | 0019618 | Wheels, Front, Alcoa, 22.50" x 13.00", Aluminum, Hub Pilot |
| Tires, Front | 0679621 | Tires, Front, Michelin, XZY3 (wb), 425/65R22.50, 20 ply, Fire Service Load Rtno |
| Bumpers | 0695359 | Bumper, 26" Extended, Steel, Painted, Saber FR/Enforcer |
| Aerial Devices | 0657391 | Aerial, 100' Pierce Platform, 35 MPH Wind Rating, 400lb Tip Load Allowance |

Notes:

Actual Inside cramp angle may be less due to highly specialized options.

Curb to Curb turning radius calculated for 9.00 inch curb.

Definitions:

| | |
|-----------------------------|--|
| Inside CrampAngle | Maximum turning angle of the front inside fire. |
| Axle Track | King-pin to King-pin distance of front axle. |
| Wheel Offset | Offset from the center line of the wheel to the King-pin. |
| Tread Width | Width of the tire tread. |
| Chassis Overhang | Distance of the center line of the front axle to the front edge of the cab. This does not include the bumper depth. |
| Additional Bumper Wheel | Depth that the bumper assembly adds to the front overhang. |
| Wheelbase | Distance between the center lines of the vehicles front and rear axles. |
| Inside Turning Radius | Radius of the smallest circle around which the vehicle can turn. |
| Curb to Curb Turning Radius | Radius of the smallest circle around which the vehicle's tires can turn. This measures assumes a curb height of 9 inches. |
| Wall to Wall Turning Radius | Radius of the smallest circle around which the vehicle's tires can turn. This measures takes into account any front overhang due to chassis , bumper extensions and or aerial devices. |